Two companies that have major cable operations (Time-Warner and Gaylord).

All the companies contained in this <u>Value Line</u> group are identified on the first three pages of Attachment 6.

The second recreation group defined in Attachment 6 excludes Time-Warner and Gaylord as do the two subsequently defined subgroups. (The travel subgroup excludes the motor boat and motorcycle manufacturers.) The first recreation subgroup (the third group defined in Attachment 6) (i.e., it includes home and local leisure companies and vacation/resort companies). The second recreation subgroup (the fourth grouping is defined in Attachment 6) focuses on home and local leisure services and products and excludes resorts and cruises. The first subgroup (movie, local leisure, and vacation/resort services) constitutes our preferred choice to represent the entertainment companies that are most closely competitive with cable television for the consumers' entertainment dollar. The second subgroup is defined as the alternate choice for the recreation group. It includes all the companies in the recreation group except Time-Warner and Gaylord. Attachment 6 provides financial statistics for the four recreation company groupings.

9.I. Estimates of the Cost of Capital for the Cable Systems

Attachment 7 summarizes the results obtained by analyzing all the comparable groups and subgroups. This attachment also presents the results for the five cable television companies (see Attachment 2). The cable television companies have the highest adjusted beta. The adjusted beta for the S&P 70 comparable group is closest to that of the cable companies.

⁶¹A book publisher also is included within this group.

Attachment 7 also presents a summary of the financial results for two sets of comparable groups: (1) the preferred set; and (2) the alternate set. The S&P 70 group and the broadcast group are included in the preferred and alternate sets. In the preferred set, the telecommunications group is made up of the 7 RBHCs and the five large independents or Telco (12). Some of the smaller telecommunications companies have quite different characteristics than the large companies. In the alternate set, all the <u>Value Line</u> telecommunications companies are included in the telecommunications group. The recreation industry companies comprise the final group. In the preferred set, the recreation group consists of home and local leisure products and services plus vacation/resort products and services (Time-Warner and Gaylord are excluded due to their substantial cable telecommunications activities). This subset of the <u>Value Line</u> recreation industries competes most directly with the cable systems. The alternate set defines the recreation group as all companies included by <u>Value Line</u> except Time-Warner and Gaylord.

The following two tables present estimates of the after-tax cost of common equity and the pre-tax overall cost of capital, respectively, for cable television systems derived from the data for the comparable groups. In each table, the results generated using both the preferred and alternate sets are presented. To put these two sets of results on a comparable basis, the after-tax cost of common equity estimates must be converted to a pre-tax overall cost of capital estimate. To do this, debt cost rate estimates are needed. The average 1992 debt cost rates for the comparable groups in the two sets are used (see the third table below).

The next table presents a comparison of the results. The pre-tax overall cost of capital generated using the conventional cost of common equity approach is lower for both the preferred and alternate sets. The last table calculates an "acceptable" range of estimates for the pre-tax overall cost of capital generated by the two methods for the two sets of comparable groups. The range is defined as plus and minus one standard deviation around the recommended value.

The two analytical approaches applied to the two sets of comparable groups produce a fairly wide range of pre-tax overall cost of capital estimates. If the two results are combined (averaged), the following composite estimate of the pre-tax overall cost of common equity for cable systems is obtained:

PRE-TAX OVERALL COST OF CAPITAL FOR CABLE TELEVISION SYSTEMS

Low	<u>Recommended</u>	<u>High</u>
17.3	18.9	20.5

The above estimates are based, in part, on average debt cost rates for 1992. If the average debt cost rate for the last several months was used instead, these calculations would yield somewhat lower results.⁶²

In summary, the recommended approach for estimating the pre-tax overall cost of cable for cable television systems involves:

- 1. Defining the four types of comparable groups.
 - a. Subset of S&P Industrials that have <u>Value Line</u> risk measures similar to those <u>Value Line</u> produces for the cable television companies.
 - b. The Broadcast Group which includes all companies classified by Value Line to be in the Broadcast industry.
 - c. The two telecommunications groups are:
 - 1) Preferred: The seven RBHCs and the five major independents.

⁶²Such an update would reduce the pre-tax overall capital cost rate recommendations presented above by 25 to 50 basis points.

- 2) Alternate: All companies classified by <u>Value Line</u> to be in the telecommunications industry.
- d. The recreation/leisure groupings:
 - 1) Preferred: The home and local leisure companies and the resort/vacation companies (i.e., entertainment companies) taken from the companies that <u>Value Line</u> classifies as being in the Recreation Industry excluding Time-Warner and Gaylord due to their extensive cable television businesses.
 - 2) Alternate: All the companies that <u>Value Line</u> classifies as being in the Recreation Industry again except Time-Warner and Gaylord.
- Calculate both the pre-tax overall cost of capital and the after-tax cost of common equity for each of the above groups (Preferred and Alternate) using the comparables method.
 - a. Result is the simple arithmetic average of historical and forecast data as published by <u>Value Line</u>.
 - b. Historical data are a five-year average ending in the most recently completed year (e.g., 1988 through 1992).
 - c. Forecast data are for a five-year ahead horizon is published by Value Line.

- 3. Two key assumptions are:
 - a. A 50/50 capital structure.
 - b. A 40 percent effective business income tax rate. 63
- 4. Four complete sets of estimates are calculated for the pre-tax overall cost of capital for cable television systems based on:
 - a. The preferred group using after-tax cost of common equity estimates generated by the comparables analysis.
 - b. The alternate group using the after-tax cost of common equity estimate generated by the comparables analysis.
 - c. The preferred group using the pre-tax overall cost of capital generated by the comparables analysis.
 - d. The alternate group using the pre-tax overall cost of capital generated by the comparables analysis.
- 5. For each of the four sets of estimates, the following will be calculated.
 - a. The average overall pre-tax cost of capital.
 - b. The standard deviation of the pre-tax overall cost of capital. 64

⁶³This should be adjusted if federal or average state/local rates are changed.

⁶⁴Alternatively, when the after-tax cost of common equity is estimated using the comparable approach, the standard deviation for this cost estimate can be derived instead.

- c. The lower end of the acceptable range defined to be the average less one standard deviation.
- d. The upper end of the acceptable range defined to be the average plus one standard deviation.
- 5. The recommended pre-tax overall cost of capital for the cable television systems and the acceptable range around this recommended value are calculated as the average of the four sets of estimates produced using the two methods applied to the two groupings (Preferred or Alternate).

HISTORICAL AND FORECAST AFTER-TAX RATE OF RETURN ON EQUITY FOR THE PREFERRED COMPARABLE GROUP SET

Group List	Five-Year Historical <u>Average</u>	Five-Year Forecast	Average
S&P 70	14.50	17.50	16.00
Telco (12)	13.90	16.80	15.35
Broadcast	18.30	17.60	17.95
Leisure/Vacation	14.70	19.00	16.85
Average	15.35	17.73	16.54
Average Standard Deviation	1.73	0.80	0.97

HISTORICAL AND FORECAST AFTER-TAX RATE OF RETURN ON EQUITY FOR THE ALTERNATE COMPARABLE GROUP SET

Group List	Five-Year Historical <u>Average</u>	Five-Year Forecast	<u>Average</u>
S&P 70	14.50	17.50	16.00
Telco (All)	12.50	16.50	14.50
Broadcast	18.30	17.60	17.95
Recreation-2	13.00	17.90	15.45
Average Standard Deviation	14.58 2.27	17.38 0.53	15.98 1.26

HISTORICAL AND FORECAST PRE-TAX OVERALL RATE OF RETURN FOR THE PREFERRED COMPARABLE GROUP SET

Group List	Five-Year Historical <u>Average</u>	Five-Year Forecast	Average
S&P 70	19.20	23.10	21.15
Telco (12)	15.10	17.30	16.20
Broadcast	17.80	22.50	20.15
Leisure/Vacation	23.40	20.90	22.15
Average Standard Deviation	18.88 3.00	20.95 2.26	19.91 2.26

HISTORICAL AND FORECAST PRE-TAX OVERALL RATE OF RETURN FOR THE ALTERNATE COMPARABLE GROUP SET

Group List	Five-Year Historical <u>Average</u>	Five-Year Forecast	Average
S&P 70	19.20	23.10	21.15
Telco (All)	14.30	16.60	15.45
Broadcast	17.80	22.50	20.15
Recreation-2	21.20	20.90	21.05
Average Standard Deviation	18.13 2.52	20.78 2.54	19.45 2.34

AVERAGE 1992 DEBT COST FOR THE TWO SETS OF COMPARABLE GROUPS

Group List	Preferred Group	Alternate Group
S&P 70	9.5	9.5
Broadcast	10.0	10.0
Telco	8.1	8.2
Recreation	<u>8.9</u>	<u>10.5</u>
Average	9.1	9.5

ESTIMATES OF THE COST OF CAPITAL FOR CABLE TELEVISION SYSTEMS

	Convent	Pre-Tax Overall Approach		
<u>Group</u>	After-Tax Cost of Common Equity	1992 Debt Cost for Group	Pre-Tax Cost of <u>Capital</u> 1	Pre-Tax Cost of <u>Capital</u>
Preferred	16.54	9.1	18.33	19.91
Alternative	15.98	9.5	18.07	19.45

Calculated assuming a 50 percent debt/50 percent equity capital structure and a 40 percent corporate tax rate.

RANGE OF PRE-TAX OVERALL COST OF CAPITAL ESTIMATES FOR CABLE TELEVISION SYSTEMS

	Results Generated Using Cost of Common Approach				Results Generated Using Overall Cost of Capital Method			
Group	Low	Recommend	<u>High</u>	Low	Recomme	nd <u>High</u>		
Preferred	17.5	18.3	19.1	17.7	19.9	22.2		
Alternate	17.0	18.1	19.1	17.1	19.4	21.8		

10. Service Rate (Price) Adjustments After Their Initial Determination

It is quite possible that the rate based rate of return analysis will justify rates above their current levels. The objective of the initial round of cost-based rate determination analysis is only to determine if rates can stay where they are or must be rolled back. However, for systems where current rates ultimately will have to be increased to provide the required return, a mechanism will have to be established to allow service prices (rates) to be increased at a sufficient rate to generate the required revenues over a reasonable timeframe.

This issue need not be addressed at this time. Instead, it can be addressed after the initial rates are set. Given the very large number of issues that must be addressed now, this issue should logically be addressed later. Nonetheless, it is necessary is that the Commission recognize that a rate adjustment scheme must be developed to allow full recovery and earnings over a reasonable horizon (e.g., 10 years). Possibly, the best solution might be for systems to propose adjustment mechanisms for FCC approval and not try to develop a set of rules.

11. Conclusions

The FCC proposal to use the original cost of tangible assets as the measure of value for rate base for cable television is inappropriate for a variety of reasons:

1. Traditional public utility rate regulation has evolved over a near 100-year period. At the outset and for several subsequent decades, original cost was not the employed measure of value. In short, there is no regulatory precedent for instant original cost ratemaking. History teaches the reasons for the evolution toward original cost rate making are the fact that the books and records of such companies didn't permit ready identification of such original cost and that an instant adoption of original cost ratemaking would have been confiscatory.

- 2. The present book values of cable companies reflect the product of arm's length acquisition of systems. Debt and equity were issued in conjunction with these acquisitions. To ignore the investment made in other than tangible assets is tantamount to confiscation without due process. About 90 percent of all the original builder cable systems have been acquired by the present owner.
- 3. Given that cable television's tangible assets have a useful life of approximately 10 years, the transition period for a cable system's tangible assets should be no longer than 10 years.
- 4. Intangible assets could also be amortized over the same 10-year period to avoid confiscation and to permit maintenance of financial integrity.

As a result, we recommend adoption of book cost as the starting point of rate base determination including tangible and intangible assets. The transition to original cost ratemaking would take place over a 10-year period.

With respect to rate of return, we have recommended a specific workable approach to determine revenue requirements. However, in the final analysis, the end result must be tested to insure the maintenance of financial integrity and the ability to attract capital on reasonable terms in competition with similar risk enterprises. If the rate of return is too low, even when applied to an appropriate rate base, the dollars of return will be too low. If the rate base is too low, even if the proper rate of return was applied, the dollars of return will be too low. Accordingly, testing the outcome of both the rate base and the rate of return conclusions should be part and parcel of the regulatory process. Such testing could take the form of the ability to continue to service existing outstanding capital including debt capital, the ability to attract additional capital as needed on reasonable terms, and hence the ultimate duty of a regulator would be fulfilled;, namely, to insure service that is deemed to be in the public interest.

LIST OF ATTACHMENTS

Attachment 1: Illustration of an Arms Length Sale of a Hypothetical Cable System

and the Valuation of Underlying Tangible and Intangible Asset

Values

Attachment 2: Cable Television Industry Financial Statistics

Attachment 3: Financial Statistics for a Sample of 70 S&P Industrials with Risk

Characteristics Similar to the Cable Television Industry

Attachment 4: Financial Statistics for the <u>Value Line</u> Telecommunications

Companies:

1) All <u>Value Line</u> Telecommunications Companies

2) The Seven RBHCs and the Five Major Independents

Attachment 5: Financial Statistics for the Value Line Broadcast Companies

Attachment 6: Financial Statistics for the <u>Value Line</u> Recreation Industry

Companies

1) All Value Line Recreation Companies

2) All <u>Value Line</u> Recreation Companies Excluding Time-Warner and Gaylord

3) Value Line Home and Local Leisure and Vacation/Resort

Companies Excluding Time-Warner and Gaylord

4) Value Line Home and Local Leisure Companies

Excluding Time-Warner and Gaylord

Attachment 7: Summary of Key Financial Statistics for the Groups

ATTACHMENT 1

ILLUSTRATION OF AN ARMS LENGTH SALE OF A HYPOTHETICAL CABLE SYSTEM AND THE VALUATION OF UNDERLYING TANGIBLE AND INTANGIBLE ASSET VALUES

ILLUSTRATION OF THE SALE OF A HYPOTHETICAL CABLE SYSTEM

ASSUMPTIONS:	
Houses Passed in Year 5:	2,000
Annual Growth of Houses Passed:	2.0%
Loss of Old Subscribers Each Year After Year 5 (%):	10.0%
Rate of Inflation (%):	4.0%
Monthly Rates in Year 5:	4.00
Tier 1:	\$10.00
Tier 2:	\$11.00
Premium and Pay-for-View:	\$16.00
Real Increase in Monthly Rates:	\$10.00
Tier 2:	40 AE
Premium and Pay-for-View:	\$0.45
	\$0.45
Monthly Other Revenues per Subscriber: Costs in Year 5:	\$3.00
Fixed:	*400.000
	\$120,000
Per Subscriber:	\$90
Penetration	
Overall (%):	
Year 1:	30.0%
Year 5:	72.5%
Tier 2 (%):	90.0%
Premium and Pay-for-View (%):	
Year 1:	40.0%
Year 5:	60.0%
Depreciation Rate (%):	10.0%
Income Tax_Rate (%):	40.0%
Long-Term Debt:	
Share (%):	50.0%
Cost Rate (%):	8.0%
Total Plant in Year 1:	1,140,000
	• •

Year	Houses Passed	Subsc	ribers New	Total	Overall	tion Premium and Pay- for-View	Tier 1	thly Rates	Premium and Pay- for-View	Monthly Other Revenue per Subscriber		nels Off Tier 2	ered Premium and Pay- for-View
Original Develo	per				•								
1 2 3 4 5	1,848 1,885 1,923 1,961 2,000	554 833 1,122 1,422 1,450	0	554 833 1,122 1,422 1,450	30.0% 44.2% 58.3% 72.5% 72.5%	40.0% 46.7% 53.3% 60.0% 60.0%	\$8.89 \$9.25 \$9.62	\$9.40 \$9.78 \$10.17 \$10.58 \$11.00	\$13.68 \$14.22 \$14.79 \$15.38 \$16.00	\$2.56 \$2.67 \$2.77 \$2.88 \$3.00	15 15 15 15 15	15 15 15 15 15	10 10 10 10 10
New Owner													
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2,040 2,081 2,123 2,165 2,208 2,252 2,297 2,343 2,390 2,438 2,438 2,537 2,588 2,640 2,693	1,450 1,305 1,160 1,015 870 725 580 435 290 145 0 0	29 204 379 555 731 908 1,085 1,264 1,443 1,623 1,803 1,839 1,876 1,914 1,952	1,479 1,509 1,539 1,570 1,601 1,633 1,665 1,699 1,733 1,768 1,839 1,876 1,914 1,952	72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5% 72.5%	60.0% 60.0% 60.0% 60.0% 60.0% 60.0% 60.0% 60.0% 60.0% 60.0% 60.0%	\$10.40 \$10.82 \$11.25 \$11.70 \$12.17 \$12.65 \$13.69 \$14.23 \$14.80 \$15.39 \$16.01 \$16.65 \$17.32 \$18.01	\$11.91 \$12.87 \$13.89 \$14.97 \$16.12 \$17.33 \$18.62 \$19.98 \$21.42 \$22.94 \$23.86 \$24.82 \$25.81 \$26.84 \$27.91	\$17.11 \$18.28 \$19.52 \$20.82 \$22.20 \$23.66 \$25.20 \$26.82 \$28.54 \$30.35 \$31.56 \$32.82 \$34.13 \$35.50	\$3.12 \$3.24 \$3.37 \$3.65 \$3.80 \$3.95 \$4.11 \$4.27 \$4.44 \$4.62 \$4.80 \$5.00 \$5.20	15 15 15 15 15 15 15 15 15 15	18 21 24 27 30 30 30 30 30 30 30 30 30 30 30	11 12 13 14 15 15 15 15 15 15 15

.

	Old	Revenue From				Total	
Year	Subscribers	New Subscribers	Total Subscribers	Fixed	Per Subscriber	Operating Expenses	Profit / /(Loss)
Original D	eveloper					•	
	1 \$166,624	\$0	\$166,624	\$102,577	\$77	\$145,197	\$21,427
	2 \$269,702	\$0 \$0 \$0	\$269,702	\$106,680	\$80	\$173,328	\$96,374
	3 \$391,202	\$0	\$391,202	\$110,947	\$83	\$204,308	\$186,894
	4 \$533,147	\$0	\$533,147	\$115,385	\$87	\$238,442	\$294,705
	5 \$565,500	\$0	\$565,500	\$120,000	\$90	\$250,500	\$315,000
New Owner							
	6 \$600,335	\$12,007	\$612,342	\$124,800	\$94	\$263,234	\$349,108
	7 \$573,346	\$89,627	\$662,973	\$129,792	\$97	\$276,684	\$386,289
	8 \$540,596	\$176,626	\$717,222	\$134,984	\$101	\$290,789	\$426,433
	9 \$501,560	\$274,252	\$775,812	\$140,383	\$105	\$305,684	\$470,128
	10 \$455,679	\$382,875	\$838,554	\$145,998	\$109	\$321,306	\$517,248
	11 \$402,352	\$503,912	\$906,264	\$151,838	\$114	\$337,802	\$568,462
	12 \$340,940	\$637,792	\$978,732	\$157,912	\$118	\$355,104	\$623,628
	13	\$786,745	\$1,057,500	\$164,228	\$123	\$373,496	\$684,004
	14 \$191,067	\$950,722	\$1,141,789	\$170,797	\$128	\$392,791	\$748,998
	15 \$101,093	\$1,131,548	\$1,232,641	\$177,629	\$133	\$413,166	\$819,475
	16 \$0	\$1,307,324	\$1,307,324	\$184,734	\$139	\$434,542	\$872,782
	17 \$0	\$1,386,764	\$1,386,764	\$192,124	\$144	\$457,111	\$929,653
	18 \$0 19 \$0	\$1,471,252	\$1,471,252	\$199,809	\$150	\$480,940	\$990,312
	19 \$0	\$1,561,096	\$1,561,096	\$207,801	\$156	\$506,100	\$1,054,996
	20 \$0	\$1,655,773	\$1,655,773	\$216,113	\$162		\$1,123,270

	Depreciation & Amortization	Amortization of Intangibles	Interest Expense	Total Non- Operating Expenses	Pre-Tax Profit /(Loss)	Income Taxes	Net Profit /(Loss)
Original Deve	loper						
1 2 3 4	\$114,000 \$114,000 \$114,000 \$114,000	0 0 0 0	\$36,936 \$33,242	\$155,040 \$150,936 \$147,242 \$143,918	(\$133,613) (\$54,562) \$39,651 \$150,787	(\$53,445) (\$21,825) \$15,860	(\$80,168) (\$32,737) \$23,791
5	\$114,000	ŏ		\$140,926	\$174,074	\$60,315 \$69,629	\$90,472 \$104,444
Na 0	•			• • • • • • • • • • • • • • • • • • • •	******	702,0	,
New Owner 6	\$119,306	£00 040	\$64 707	#070 A70	* 00.000	407 000	444 500
7	\$125,625	\$98,842 \$98,842		\$279,876 \$281,901	\$69,232 \$104,388	\$27,693 \$41,755	\$41,539
8	\$132,996	\$98,842	\$53,553	\$285,392	\$141,042	\$56,417	\$62,633 \$84,625
.9	\$141,463	\$98,842	\$50,060	\$290,364	\$179,764	\$71,905	\$107,858
10	\$151,068	\$98,842		\$296,840	\$220,409 \$278,292	\$80,163	\$132,245
11 12	\$151,068 \$151,068	\$98,842		\$290,170	\$278,292	\$111,317	\$166,975
13	\$151,068	\$98,842 \$98,842		\$283,772 \$277 618	\$339,856 \$406,386	\$135,943 \$162,554	\$203,914 \$243,832
14	\$151,068	\$98,842	\$21,774	\$277,618 \$271,684	\$406,386 \$477,314	\$190,925	\$286,388
15	\$151,068	\$98,842	\$16,039	\$265,948	\$553,527	\$221,411	\$332,116
16 17	\$158,922	\$0	\$17,263	\$176,185 \$187,179	\$696,598	\$ 278,639	\$417,959
18	\$168,275 \$179,187	\$0 \$0		\$187,179 \$200 128	\$742,475 \$700 184	\$296,990 \$316,074	\$445,485
19	\$191,719	\$0	\$23,359	\$200,128 \$215,078	\$790,184 \$839,919	\$316,074 \$335,967	\$474,111 \$503,951
20	\$205,936	\$0	\$26,141	\$232,078	\$891,192	\$356,477	\$534,715
				Net		Net Plant	
	Total	Additional	Accumulated	Tangible	Unamortized	Including	
	Plant	Investment	Depreciation	Plant	Intangibles		
Original Deve	loner						
1	\$1,140,000	\$0	\$114,000	\$1,026,000	\$0	\$1,026,000	
2 3	\$1,140,000	\$0	\$216,600	\$923,400	\$0	\$923,400	
	\$1,140,000	\$0	\$308,940	\$831,060	\$0	\$831,060	
4 5	\$1,140,000 \$1,140,000	\$0 \$0	1111111	\$747,954		\$747,954	
•	#1,170,000	₩0	\$466,841	\$673,159	\$0	\$673,159	
New Owner							
6	\$1,193,064	\$53,064	\$539,464	\$653,600	\$889,578	\$1,543,178	
7 8	\$1,256,250	\$63,186 \$73,714	\$611,142	\$645,108	\$790,736	\$1,435,844	
ទ	\$1,329,964 \$1,414,626	\$84,662	\$683,024 \$756,185	\$646,940 \$659,442		\$1,338,834	
10	\$1,510,675	\$96,049		\$658,442 \$679,041	\$494,210	\$1,251,494 \$1,173,252	
11	\$1,510,675	\$0		\$611,137	\$395,368	\$1,006,505	
12	\$1,510,675	\$0	\$960,652	\$550,024	\$296,526	\$846,550	
13	\$1,510,675	\$0		\$495,021	\$197,684	\$692,705	
14 15	\$1,510,675 \$1,510,675	\$0 \$0		\$445,519	\$98,842	\$544,361	
16	\$1,589,223	\$78,547	\$1,109,708 \$1,157,659	\$400,967 \$431,563		\$400,967 \$431,563	
17	\$1,682,754	\$93,531	\$1,210,169	\$472,585	\$0	\$472,585	
18	\$1,791,868	\$109,114	\$1,268,339	\$523,529	\$0	\$523,529	
19	\$1,917,189	\$125,321	\$1,333,224	\$583,965	\$0	\$583,965	
20	\$2,059,365	\$142,176	\$1,405,838	\$653,527	\$0	\$653,527	

CALCULATION OF DESIRED PRICES: FROM DEVELOPER'S POINT OF VIEW

	Cash Flow	¥
Year	Desired	Actual
Initial		
Investment	(\$570,000)	(\$570,000)
1	(\$80,168) (\$32,737)	(\$570,000) (\$80,168) (\$32,737)
2	(\$32,737)	(\$32,737)
3	\$23,791	\$23,791
4 5	\$90,472	\$90,472
Price	\$104,444 \$1,340,000	\$104,444 \$1,325,000
Internal Rate		
of Return	16.0%	15.9%

FROM BUYER'S POINT OF VIEW

		Cash Flo	W
Year	١	Desired	Actual
Initi	al		
Invest		(\$823,290)	(\$830,790)
	6	\$16,231	\$15,007
	7	\$32,228	\$31,040
	8	\$48,920	\$47,768
	9	\$66,643	\$65,527
	10	\$85,301	\$84,221
	11	\$168,019	\$166,975
	12	\$204,922	\$203,914
	า์จั	\$244,804	\$243,832
	14	\$287,324	\$286,388
	15	\$333,016	\$332,116
	16	\$378,685	\$378,685
	17	\$398,719	\$398,719
	18	\$419,553	\$419,553
	19	\$441,291	\$441 001
	20	\$463,628	\$441,291 \$463,628
Price	20	\$1,310,000	
LI-1C6		\$1,310,000	\$1,325,000
Internal	Rate		
of Retur	'n	16.0%	15.8%
Agreed U	pon Price:		\$1,325,000
-	0	•	

Actual Sales Price	\$1,325,000
Debt Assumption (50% Rate Base, Yr. 5)	\$336,579
New Owner Basis	\$1,661,579
Less: Net Plant At Acquisition (Yr. 5)	\$ 673,159
Acquisition Adjustment	\$988,420
Annual Amortization (10 Years)	\$98,842

VALUATION OF THE TANGIBLE AND INTANGIBLE ASSETS OF THE SOLD CABLE SYSTEM

Houses Passed Prior to Purchase: Annual Growth of Houses Passed: Loss of Old Subscribers Each Year (%): Rate of Inflation (%): Wonthly Rates Prior to Purchase: Tier 1: Tier 2: Premium and Pay-for-View: Revenue from Year Revenues per Subscriber: Revenue from Tangibles: Revenue from Tangibles: Revenue from New Subscribers Revenue from Subscribers: Revenue from New Subscribers Revenue from Maw Subscribers Total Revenues Due to Tangibles, Subscriber List, and Franchise Value: Subscriber List After-Tax Value of Subscriber List: After-Tax Value of Franchise Value: Subscriber List After-Tax Value of Franchise Value: Subscriber List After-Tax Value of Franchise Value: Subscriber List After-Tax Value of Franchise Value:	ASSUMPTIONS:		RESULTS:	
Loss of Old Subscribers Each Year (%): Rate of Inflation (%): Monthly Rates Prior to Purchase: Tier 1: Tier 2: Premium and Pay-for-View: Revenue from Tangibles: Revenue from New Subscriber List, and Franchise Value: Says, Revenue from New Subscriber List, and Franchise Value: Revenue from Tangibles: Revenue from New Subscribers: Revenue from Old Subscribers: Revenue from New Subscribers: Revenue from New Subscribers: Revenue from New Subscribers: Says, Revenue from Tangibles, Subscriber List, and Franchise Value: Says, Revenue from Tangible Plant: Says, Revenue from Subscriber List and Franchise Value: Says, S	Houses Passed Prior to Purchase:	2,000	Present Discounted Values:	
Rate of Inflation (%): Monthly Rates Prior to Purchase: Tier 1: Premium and Pay-for-View: Revenue from Yangibles: Revenue from Tangibles: Revenue from New Subscriber Uist, and Franchise Value: Sass, 323 Revenue from New Subscriber Uist, and Franchise Value: Sass, 324,041 Less Revenue from Tangible Plant: \$358,323 Revenue from Subscriber List and Franchise Value: \$3,565,718 Net Operating Revenues from Subscriber List and Franchise Value: \$179,162 Year Prior to Purchase: Year Prior to Purchase:		2.0%	Revenue from Old Subscribers	
Rate of Inflation (%): Monthly Rates Prior to Purchase: Tier 1: Premium and Pay-for-View: Revenue from Yangibles: Revenue from Tangibles: Revenue from New Subscriber Uist, and Franchise Value: Sass, 323 Revenue from New Subscriber Uist, and Franchise Value: Sass, 324,041 Less Revenue from Tangible Plant: \$358,323 Revenue from Subscriber List and Franchise Value: \$3,565,718 Net Operating Revenues from Subscriber List and Franchise Value: \$179,162 Year Prior to Purchase: Year Prior to Purchase:	Loss of Old Subscribers Each Year (%):	10.0%	(Subscriber List Value):	\$2,154,646
Monthly Rates Prior to Purchase: Tier 1: Tier 2: Premium and Pay-for-View: S11.00 Premium and Pay-for-View: Revenue from Tangibles: Revenue from Tangibles: Revenue from Old Subscribers: Revenue from New Subscribers: Revenue from Tangibles, Subscriber List, and Franchise Value: S3,924,041 Less Revenue from Tangible Plant: S358,323 Revenue from Subscriber List and Franchise Value: Revenues from Subscriber List and Franchise Value: S3,925,718 Revenues from Tangible S179,162 Year Prior to Purchase: Year Prior to Purchas	Rate of Inflation (%):	4.0%	,	
Tier 1: Tier 2: Premium and Pay-for-View: S16.00 Monthly Other Revenues per Subscriber: Discount Rates: Revenue from Tangibles: Revenue from Old Subscribers: Cost as Percent of Revenues: Penetration Overall (%): Year Prior to Purchase: Tier 1 (%): Tier 1 (%): Year Prior to Purchase: Year 3: Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 3: Tier 4 (%): Year Prior to Purchase: Year 3: Tier 1 (%): Year Prior to Purchase: Year 3: Tier 1 (%): Year Prior to Purchase: Year 3: Tier 1 (%): Year Prior to Purchase: Year 3: Tier 1 (%): Year Prior to Purchase: Year 3: Year 9: Ye			Revenue from New Subscribers	
Tier 2: Premium and Pay-for-View: Monthly Other Revenues per Subscriber: Discount Rates: Revenue from Tangibles: Revenue from Old Subscribers: Revenue from New Subscribers: Cost as Percent of Revenues: Year Prior to Purchase: Year 7: Tier 1 (%): Year Prior to Purchase: Year 9: Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Year Prior to Purchase: Year 3: Tier 1 (%): Year Prior to Purchase: Year 3: Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 1 (%): Tier 2 (%): Tier 2 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 5 (%): Tier 6 (%): Tier 7 (%): Tier 7 (%): Tier 8 (%): Tier 1 (%): Tier 9 (%): Tier 1 (%): Tier 2 (%): Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 2 (%): Tier 1 (%): Tier 2 (%): Tier 2 (%): Tier 2 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 5 (%): Tier 5 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 2 (%): Tier 2 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 6 (\$10.00	(Franchise Value):	\$1.769.395
Premium and Pay-for-View: \$16.00 Monthly Other Revenues per Subscriber: \$3.00 Bell Revenue from Rates: \$3.00 Revenue from Tangibles: \$12.33% Revenue from Old Subscribers: \$17.33% Revenue from New Subscribers: \$22.33% Cost as Percent of Revenues: \$50.0% Penetration Overall (%): Year Prior to Purchase: \$72.5% Tier 1 (%): \$100.0% Premium and Pay-for-View (%): Year Prior to Purchase: \$0.0% After-Tax Value of Subscriber List and Franchise Value: \$107,497 Year 3: After-Tax Value of Subscriber List and Franchise Value: \$1,77,212 After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394			(
Monthly Other Revenues per Subscriber: Discount Rates: Revenue from Tangibles: Revenue from Old Subscribers: Revenue from New Subscribers: Cost as Percent of Revenues: Penetration Overall (%): Year Prior to Purchase: Tier 1 (%): Tier 1 (%): Year Prior to Purchase: Year Prior to Purchase: Year Prior to Purchase: Year Prior to Purchase: Year 100.0% Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value: Net Operating Revenues from Subscriber List and Franchise Value:				
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Revenue from Tangibles: Revenue from Old Subscribers: Revenue from New Subscribers: Cost as Percent of Revenues: Penetration Overall (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 7: Year Prior to Purchase: Year Prior to		₩0.00		
Revenue from Old Subscribers: 17.33% Less Revenue from Tangible Plant: \$358,323 Revenue from New Subscribers: 22.33% Cost as Percent of Revenues: 50.0% Revenues from Subscriber List and Franchise Value: \$3,565,718 Overall (%): Year Prior to Purchase: 50.0% Net Operating Revenues from Tangibles \$179,162 Year 3: 100.0% Net Operating Revenues from Subscriber List and Franchise Value: \$1,962,021 Premium and Pay-for-View (%): Year Prior to Purchase: 40.0% After-Tax Value of Tangibles: \$107,497 Year 3: After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394		10 99%	rior, wild Lisippinion Astra.	40,327,071
Revenue from New Subscribers: Cost as Percent of Revenues: Penetration Overall (%): Year Prior to Purchase: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): After-Tax Value of Subscriber List and Franchise Value: Year 3: 40.0% After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: \$1,77,212 After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394			Lace Powerus from Tangible Plant:	\$250 22 2
Cost as Percent of Revenues: Penetration Overall (%): Year Prior to Purchase: Year 3: Tier 1 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: \$3,565,718 Net Operating Revenues from Subscriber List and Franchise Value: \$1,962,021 After-Tax Value of Tangibles: \$1,177,497 After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394			ress vasaune ilom imidinte Limit.	#000,020
Penetration Overall (%): Year Prior to Purchase: Year 3: Tier 1 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year Prior to Purchase: Year Prior to Purchase: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List:			Davisson for Outro-than Link and	
Overall (%): Year Prior to Purchase: Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: Tier 3: Tier 4 (%): Tier 5 (%): Tier 6 (%): Tier 7 (%): Tier 8 (%): Tier 9 (%): Tier 9 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 6 (%): Tier 6 (%): Tier 7 (%): Tier 7 (%): Tier 8 (%): Tier 9 (%): Tier 9 (%): Tier 9 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 2 (%): Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 2 (%): Tier 2 (%): Tier 3 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 5 (%): Tier 7 (%): Tier 7 (%): Tier 8 (%): Tier 9 (%): Tier 9 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 1 (%): Tier 2 (%): Tier 1 (%): Tier 2 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 5 (%): Tier 6 (%): Tier 7 (%): Tier 7 (%): Tier 7 (%): Tier 8 (%): Tier 9 (%): Tier 9 (%): Tier 9 (%): Tier 1 (%): Tier 2 (%): Tier 1 (%): Tier 2 (%): Tier 3 (%): Tier 4 (%): Tier 4 (%): Tier 4 (%): Tier 5 (%): Tier 5 (%): Tier 6 (%): Tier 7		30.04		40 EGE 740
Year Prior to Purchase: 50.0% Net Operating Revenues from Tangibles \$179,162 Year 3: 72.5% Tier 1 (%): 100.0% Net Operating Revenues from Subscriber List and Tier 2 (%): 90.0% Franchise Value: \$1,962,021 Premium and Pay-for-View (%): Year 7: 40.0% After-Tax Value of Tangibles: \$107,497 Year 3: After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394			Franchise value:	\$3,000,718
Year 3: Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: \$1,177,212 After-Tax Value of Subscriber List: \$646,394	Overall (%):	E0.00	N-4 A	4470 400
Tier 1 (%): Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List and Franchise Value: After-Tax Value of Subscriber List: After-Tax Value of Subscriber List: \$1,177,212 After-Tax Value of Subscriber List: \$646,394			Net Operating Revenues from langibles	\$179,102
Tier 2 (%): Premium and Pay-for-View (%): Year Prior to Purchase: Year 3: 40.0% 60.0% After-Tax Value of Subscriber List and Franchise Value: \$1,962,021 \$107,497 \$40.0% After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394				
Premium and Pay-for-View (%): Year Prior to Purchase: 40.0% After-Tax Value of Tangibles: \$107,497 Year 3: After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394				
Year Prior to Purchase: 40.0% After-Tax Value of Tangibles: \$107,497 Year 3: 60.0% After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394	lier 2 (%):	90.0%	Franchise Value:	\$1,962,021
Year 3: 60.0% After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394				*
After-Tax Value of Subscriber List and Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394			After-Tax Value of Tangibles:	\$ 107,497
Franchise Value: \$1,177,212 After-Tax Value of Subscriber List: \$646,394	Year 3:	60.0%		
After-Tax Value of Subscriber List: \$646,394				
After-Tax Value of Subscriber List: \$646,394 After-Tax Value of Franchise Value: \$530,819				\$1,177,212
After-Tax Value of Franchise Value: \$530,819				\$646,394
			After-Tax Value of Franchise Value:	\$530,819
Other Going Concern Value: \$376,870			Other Going Concern Value:	\$376,870
Total System Cost: \$1,661,579			Total System Cost:	\$1,661,579

CALCULATIONS:

Year	Houses Passed	Subs	scribers- New	Total	Penetra	Premium and Pay-	Mor Tier 1	•		Monthly Other Revenue per Subscriber	Old Subscribers	al Revenue Fr New Subscribers		Net Tangible Plant	Revenue from Tangible Plant
Prior to															
Purchase	2,000	1,450	0	1,450	72.5%	60.0%		\$11.00		\$3.00	\$565,500	\$0	\$565,500		
6	2,040		29	1,479	72.5%			\$11.96		\$3.12	\$601,692	\$12,034 \$90,024 \$177,777	\$613,726		\$83,000
7	2,081	1,305	204	1,509	72.5%			\$12.98	\$18.39	\$3.24	\$575,887	\$90,024	\$665,911		\$74,700
8	2,123	1,160	379	1,539	72.5%			\$14.06		\$3.37	\$544,119	\$177,777	\$721,896		\$67,230
9	2,165	1,015 870	555	1,570	72.5%			\$15.21	\$21.06	\$3.51	\$505,835	\$276,590	\$782,425		\$60,507
10	2,208		731	1,601	72.5%			\$16.42		\$ 3.65	\$460,442	\$386,877	\$847,319		\$54,457
11	2,252		908	1,633	72.5%			\$17.71	\$24.04	\$3.80	\$407,306	\$510,116	\$917,422		\$49,011
12 13	2,297	580	1,085	1,665	72.5%			\$19.08		\$3.95	\$345,748	\$646,787	\$992,535		\$44,110
13	2,343	435	1,264	1,699	72.5%			\$20.53	\$27.37	\$4.11	\$275,041	\$799,201	\$1,074,242	5289,773	\$39,699
14	2,390	290	1,443	1,733	72.5%			\$22.06		\$4.27	\$194,410	\$967,358	\$1,161,768 \$		\$35,729
15 16	2,438	145	1,623	1,768	72.5%			\$23.68		\$4.44	\$103,025	\$1,153,170	\$1,256,195		\$32,156
16	2,487	0	1,803	1,803	72.5%	60.0%	\$15.39	\$24.63		\$4.62	\$0	\$1,332,305	\$1,332,305	\$211,244	\$28 ,940
17	2,537	0	1,839	1,839	72.5%			\$25.62			\$0 \$0	\$1,413,263	\$1,413,263		
18	2,588	0	1,876	1,876	72.5%			\$26.64		\$5.00	\$0	\$1,499,365			\$23,442
19	2,640		1,914	1,914	72.5%			\$27.71	\$36.37	\$5.20	\$0	\$1,590,926	\$1,590,926		\$21,098
18 19 20	2,693	0	1,952	1,952	72.5%	60.0%	\$18.01	\$28.82	\$37.82	\$5.40	\$0	\$1,687,412	\$1,687,412	138,597	\$18,988

ATTACHMENT 2

CABLE TELEVISION INDUSTRY FINANCIAL STATISTICS

VOLATILITY MEASURES FOR THE FIVE VALUE LINE CABLE TELEVISION COMPANIES

COMPANY	ADJUSTED <u>BETA</u>	UNADJ. <u>BETA</u>	RESIDUAL STD DEV
CABLEVISION SYS. 'A' COMCAST CORP. MULTIMEDIA, INC. TELE-COMMUNIC. 'A' VIACOM INC. 'A'	1.35 1.55 0.90 1.55 1.15	1.46 1.81 0.79 1.82 1.17	5.0447 4.3201 3.3888 3.7747 4.2178
Average	1.30	1.41	4.1492
Beta Range (+/- 3 Standard Deviations)	0.98	1.84	
Residual Standard Deviation Range (+/- 3 Standard Deviation	s) 3.6033	4.6951	

AVERAGE DEBT COST AND PRE-TAX OVERALL RATE OF RETURN FOR THE FIVE VALUE LINE CABLE TELEVISION COMPANIES

	Cost of Debt	Rate of Return
1992	8.5%	10.9%
1991	10.6	12.4
1990	11.3	13.4
1989	12.6	18.6
1988	11.9	14.9
Average	11.0%	14.0%

FIVE-YEAR FORECASTED PRETAX OVERALL RATE OF RETURN FOR THE FIVE VALUE LINE CABLE TV COMPANIES(1)

	Net Profit	Income Tax Rate	L-T Debt	Net Worth	Percent Earned Total Capital	Pre-Tax Net Profit(2)	Interest Expense(3)	Forecasted Pretax Overall Rate of Return(4)
CABLEVISION SYS. 'A' COMCAST CORP. MULTIMEDIA, INC. TELE-COMMUNIC. 'A' VIACOM INC. 'A' Average	(\$45) 100 130 1,010 360	0.0% 36.0 40.0 40.0 40.0	\$1,500 3,000 600 4,000 1,400	(\$1,710) (930) 215 4,715 2,140	0.0% 12.0 19.5 14.0 12.0	(\$45) 156 217 1,683 600	\$45 148 29 210 65	NMF 14.7% 30.2% 21.7% 18.8% 21.4%

Notes: (1)

The Value Line Cable TV Companies are a subset of the Value Line Investment Survey Broadcasting/Cable TV Industry Pretax Net Profit equals Net Profit divided by one, minus Income Tax Rate (NP/(1-T)). Interest Expense equals Percent Earned Total Capital times the sum of L-T Debt and Net Worth minus Net Profit (%TC x (LTD+NW) - NP). Forecasted Pretax Overall Rate of Return equals the sum of Pretax Net Profit, plus Interest Expense divided by the sum of L-T Debt and Net Worth ((PTNP+IE)/(LTD+NW)). (2) (3)

(4)

ATTACHMENT 3

FINANCIAL STATISTICS FOR A SAMPLE OF 70 S&P INDUSTRIALS WITH RISK CHARACTERISTCS SIMILAR TO THE CABLE TELEVISION INDUSTRY

HISTORICAL CAPITAL STRUCTURE, COST OF DEBT, RATE OF RETURN ON COMMON EQUITY AND PRETAX OVERALL RATE OF RETURN FOR THE GROUP OF 70 INDUSTRIAL COMPANIES (1)

	1992	1991	1990	1989	1988 ——	5YEARAVERAGE
CAPITAL STRUCTURE RATIOS						
BASED ON TOTAL PERMANENT CAPITAL: LONG-TERM DEBT PREFERRED STOCK COMMON EQUITY	34.0% 1.9 64.1	34.5% 1.9 63.6	32.3% 2.6 65.1	32.9% 2.7 64.4	32.8% 2.7 64.5	33.3% 2.4 64.3
BASED ON TOTAL CAPITAL:	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
TOTAL DEBT, INCLUDING SHORT TERM PREFERRED STOCK COMMON EQUITY	36.5% 1.9 61.6	37.8% 1.8 60.4	35.5% 2.5 62.0	36.2% 2.5 61.3	35.5% 2.6 61.9	36.3% 2.3 61.4
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
COST OF DEBT	9.5%	10.5%	11.5%	11.4%	10.8%	10.7%
RATE OF RETURN ON AVERAGE BOOK COMMON EQUITY	9.5%	9.3%	13.4%	18.4%	21.8%	14.5%
PRETAX OVERALL RATE OF RETURN	15.2%	15.2%	19.0%	21.6%	24.8%	19.2%

NOTE: (1) THE GROUP OF 70 INDUSTRIAL COMPANIES IS A SUBSET OF THE S&P INDUSTRIALS COMPANIES WITH AN UNADJUSTED BETA EQUAL TO OR GREATER THAN 0.98 AND EQUAL TO OR LESS THAN 1.84 WITH RESIDUAL STANDARD DEVIATION EQUAL TO OR GREATER THAN .6033 AND EQUAL TO OR LESS THAN 4.6951 HAVE BEEN INCLUDED IN THIS ANALYSIS.

SOURCE OF INFORMATION: STANDARD & POOR'S COMPUSTAT SERVICES, INC., COMPUSTAT II